

# New York State Department of Transportation

## Yellow Flag NB2228W017

By: Ben Colangelo

Flag Date: March 28, 2022

Superseding Information:

This flag supersedes: YF NB2122W023

### Structure Information

**BIN: 1065318**

Feature Carried: 278I278IX2M23027

Feature Crossed: 6TH AVENUE

Orientation: 8 - NORTHWEST

Region: 11 - NEW YORK CITY

County: KINGS

Political Unit: City of NEW YORK

Approximate Year Built: 1962

Posted Load Matches Inventory : Yes

Bridge Load Posting (Tons) : Not Posted for Load

Primary Owner: New York State Department of Transportation

Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party

Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

Number of Spans: 322

### Verbal Notification Information

Person Notified: Heinz Joachim, P.E.

Date: March 28, 2022 10:00:00 AM

Of: NYSDOT Region 11

### Signature Information

Signature: Ben Colangelo, P.E. 068498

Date: April 19, 2022

Reviewed By: Robert Kemp

Date: May 15, 2022

Attachments: 5

### Flagged Elements

Parent Element	Element	Total Quantity	Unit
<b>Span Number : 196</b>			
	107 - Steel Open Girder/Beam	989	ft

### Flagged Condition Description

Yellow Flag No. NB2228W017

Location: Span 196 Girder G19 at Pier 196.

Description: The right clip/connection angle of Girder G19 connection to pier cap at Pier 196 exhibits a 2-1/2" long vertical crack x 3/8" wide at the lower fillet section (deterioration induced cracking). The remaining section of the right clip connection angle has heavy corrosion and up to 3/4" pack rust between the connection at the pier cap.

There has been no significant change since previous inspection.

This Yellow Flag No. NB2228W017 is superseding Yellow Flag No. NB2122W023.

#### Notes

1. The affected member, Girder G19 is a load path redundant steel girder consisting of a web depth of 19.27 inches and thickness of 0.608 inches and is located into the roadway, approximately 12" off the edge of curb line/safety walk above.
2. The left stiffener /connection angle Girder G19 to Pier 196 is not severely deteriorated and does not have deterioration induced cracking.
3. The adjacent Girder (left) G18, with a spacing of 5'-3" on center from G18, has repair plates and is in fair condition with up to 1/8" pitting at the top of the bottom flange for 5' in length.
4. The adjacent Stringer (right) S2, with a spacing of 2'-0" on center from G18, acts as a support for the railing and curb area above and has knife edge corrosion at the left side bottom flange angle for 3' long x 2" wide with up to 50% section loss.
5. A double left lane closure on 3rd Avenue Eastbound with shadow vehicle and a 35' bucket truck are required to access the flagged location.

**Flag Photographs**

Photo Number: 1

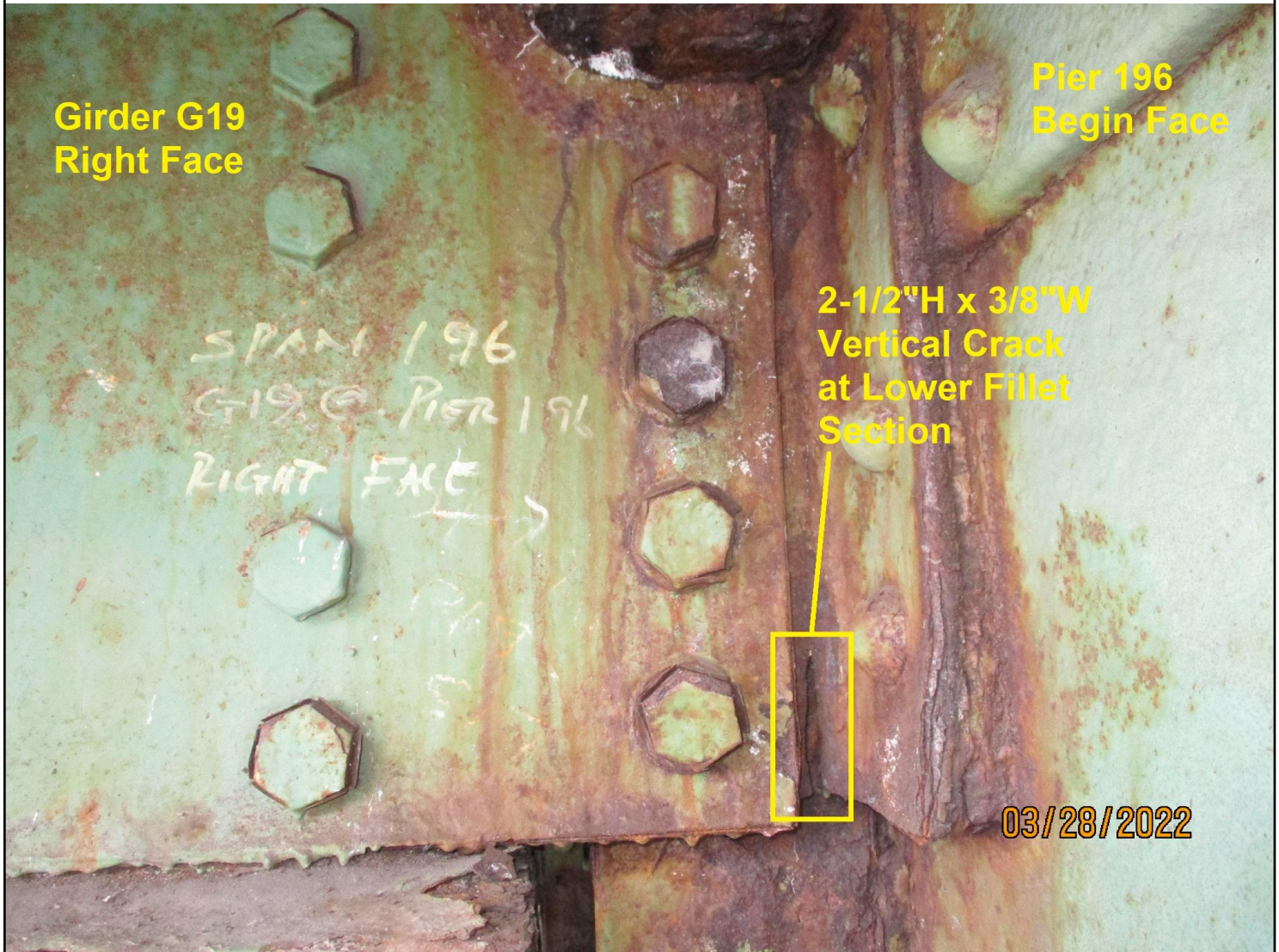
Photo Filename: IMG\_9777.JPG



**Attachment Description:** Photo 310-9777 - General view of the flagged condition at Girder G19 in Span 196 at Pier 196. Looking End.

Photo Number: 2

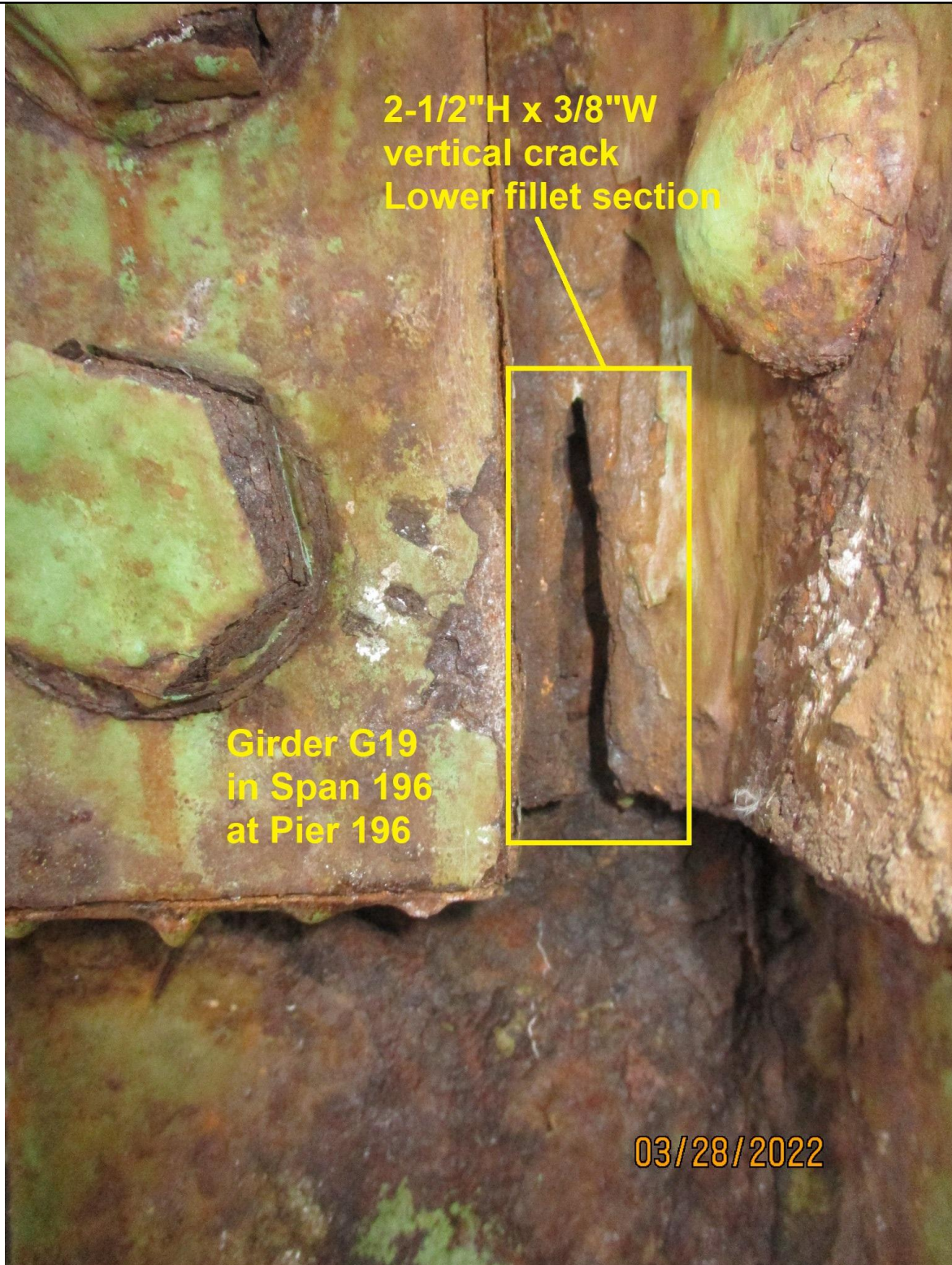
Photo Filename: IMG\_9766.JPG



**Attachment Description:** Photo 310-9766 - The right connection angle of Girder 19 connect to the pier cap at Pier 196 exhibits a 2-1/2"H x 3/8"W vertical crack at the lower fillet section. Looking Left.

Photo Number: 3

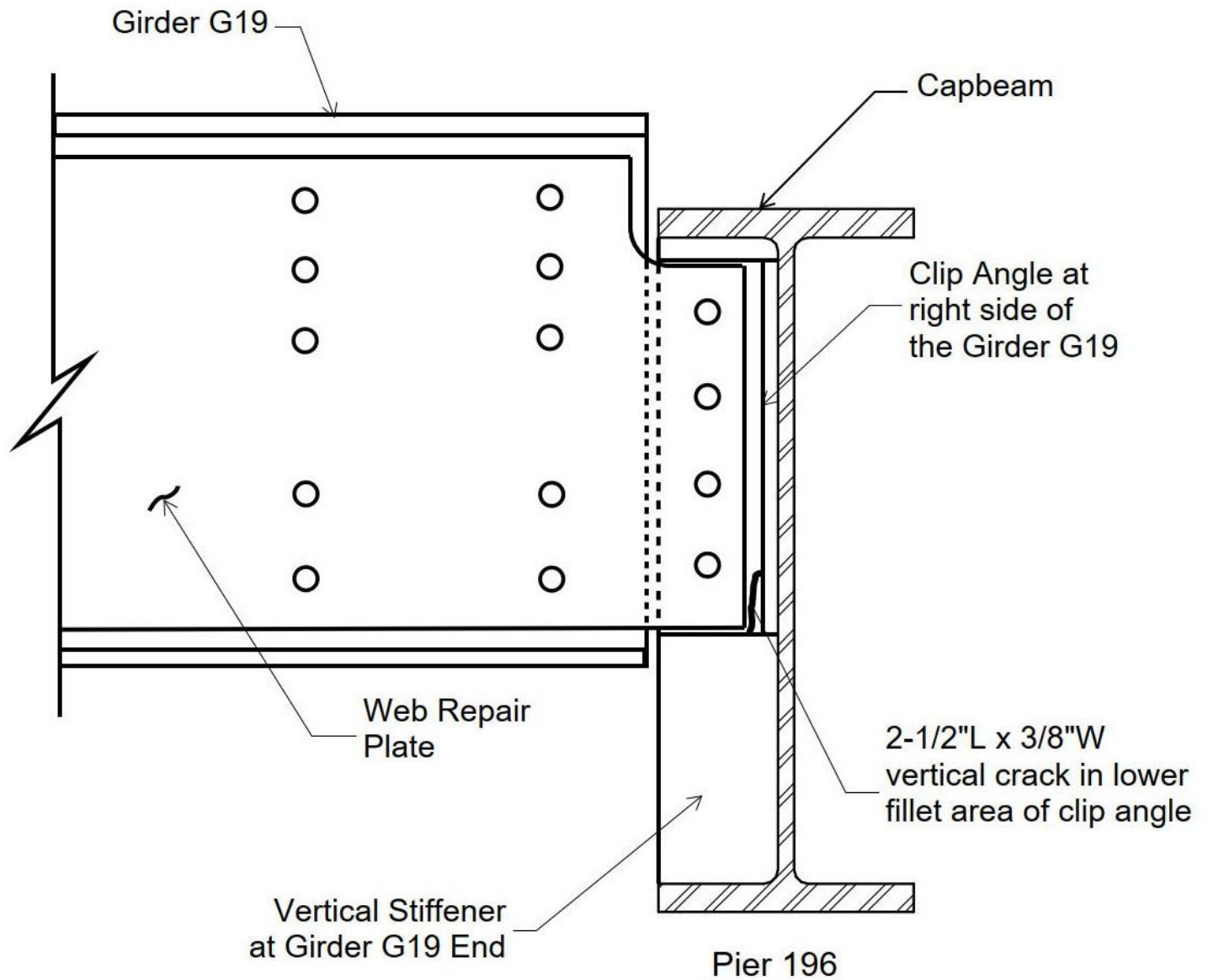
Photo Filename: IMG\_9767.JPG



**Attachment Description:** Photo 310-9767 - Close-up view of the right connection angle of Girder 19 connect to the pier cap at Pier 196 exhibits a 2-1/2"H x 3/8"W vertical crack at the lower fillet section. Looking Left.

Photo Number: 4

Photo Filename: Sketch SN196 G19 at Pier 196.jpg

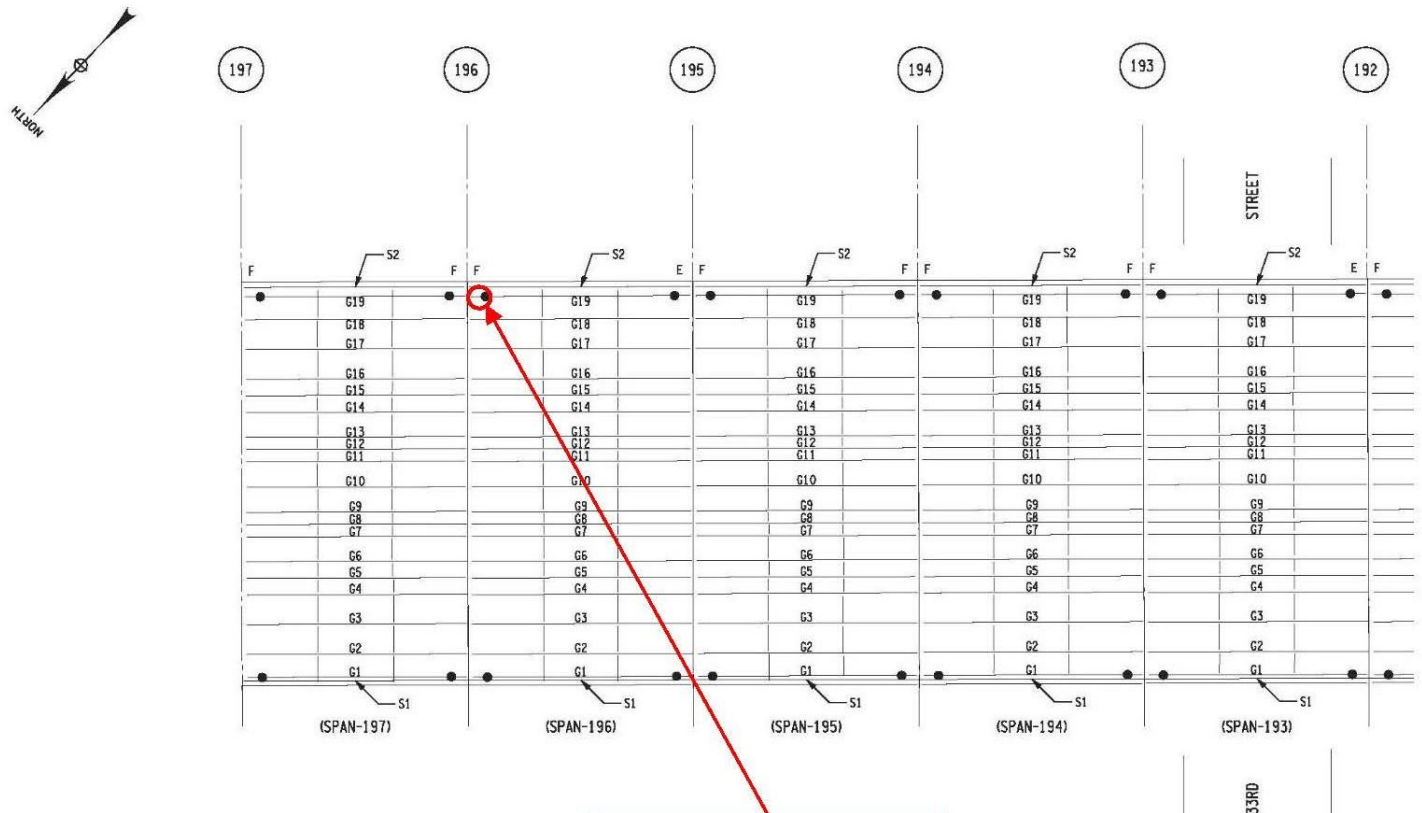


**SPAN 196, GIRDER G19 BEAM END AT PIER 196**  
**(LOOKING LEFT)**  
**N.T.S**

*Attachment Description: SN196 G19 at Pier 196 Sketch*

Photo Number: 5

Photo Filename: SN196\_G19\_Framing Plan - 2022-edit.jpg



**YELLOW FLAG  
LOCATION  
No. NB2228W017**

**LEGEND:**

E - Expansion Bearing Element PR311

F - Fixed Connection

G - Girder Element 107

S - Stringer Element 113

- End of partial length cover plate. Category E' requires 100% Hands on Inspection.

**Attachment Description: SN196 G19 at Pier 196 Framing**